

**Table S3. Verification results on UKB for glaucoma closest diseases on GHDBIN.**

	Glaucoma		Odds ratio (95% CI)	P-value
	No	Yes		
Asthma				
No	444231	4646	Reference	
Yes	58274	667	1.10(1.01-1.19)	0.02848
Hepatitis B				
No	502396	5312	Reference	
Yes	109	1	0.87(0.12-6.21)	0.89361
Emphysema				
No	502314	5309	Reference	
Yes	191	4	2.00(0.74-5.40)	0.16899
Dry eye disease				
No	501749	5296	Reference	
Yes	756	17	2.16(1.33-3.49)	0.00171
Myocardial infarction				
No	491000	5117	Reference	
Yes	11505	196	1.65(1.43-1.90)	0